Statement of Basis of the Federal Operating Permit

Texas Medical Center Central Heating and Cooling Services Corporation

Site Name: Central Plant Physical Location: 1615 Braeswood Blvd Nearest City: Houston County: Harris

> Permit Number: O1288 Project Type: Renewal

Standard Industrial Classification (SIC) Code: 4961 SIC Name: Steam and Air-Conditioning Supply

This Statement of Basis sets forth the legal and factual basis for the draft permit conditions in accordance with 30 TAC §122.201(a)(4). Per 30 TAC §§ 122.241 and 243, the permit holder has submitted an application under § 122.134 for permit renewal. This document may include the following information:

A description of the facility/area process description;

A basis for applying permit shields:

A list of the federal regulatory applicability determinations;

A table listing the determination of applicable requirements;

A list of the New Source Review Requirements;

The rationale for periodic monitoring methods selected;

The rationale for compliance assurance methods selected:

A compliance status; and

A list of available unit attribute forms.

Prepared on: March 20, 2017

Operating Permit Basis of Determination

Permit Area Process Description

Operations at the Central Plant provide thermal services to the Texas Medical Center in the form of chilled water and steam. The Central Plant has six water tube boilers, which are fired predominantly by natural gas, with diesel fuel as backup for boilers BLR-7 and BLR-8. There is one waste heat recovery boiler on the reciprocating engine; no fuel is combusted in the waste heat recovery boiler. Only necessary boilers are operated at a time to satisfy the requirements of the Medical Center facilities and at least one unit is always a backup unit. The boilers are used to generate steam. A portion of the steam is used in the plant for driving steam turbines that operate chillers, pumps, and other plant auxiliaries. Steam is also used in the Medical Center facilities primarily for room comfort conditioning (heating and reheating of air). Some of the steam is used for food preparation, laboratory work, and cleaning.

The chilled water system consists of chillers, pumps, electric motors, cooling towers, switch-gears, motor control centers, and underground distribution piping throughout the medical center. Chilled water generated from this equipment is used for comfort conditioning (air cooling) in the hospitals, schools, research buildings, and other medical center facilities. There are ten chillers. Only necessary chillers are operated to meet the medical center thermal load requirements and one unit is reserved for emergency use in the event of an equipment failure. Each chiller has three separate process cycles: a closed-loop refrigerant cycle, an open-loop condenser water cycle, and a closed-loop chilled water cycle. The site also has a cogeneration system, emergency engine generators, storage tanks, degreasers, and surface coating operations.

FOPs at Site

The "application area" consists of the emission units and that portion of the site included in the application and this permit. Multiple FOPs may be issued to a site in accordance with 30 TAC § 122.201(e). When there is only one area for the site, then the application information and permit will include all units at the site. Additional FOPs that exist at the site, if any, are listed below.

Additional FOPs: None

Major Source Pollutants

The table below specifies the pollutants for which the site is a major source:

	NOC BY NO CO
Major Pollutants	VOC, PM, NOx, CO

Reading State of Texas' Federal Operating Permit

The Title V Federal Operating Permit (FOP) lists all state and federal air emission regulations and New Source Review (NSR) authorizations (collectively known as "applicable requirements") that apply at a particular site or permit area (in the event a site has multiple FOPs). **The FOP does not authorize new emissions or new construction activities.** The FOP begins with an introductory page which is common to all Title V permits. This page gives the details of the company, states the authority of the issuing agency, requires the company to operate in accordance with this permit and 30 Texas Administrative Code (TAC) Chapter 122, requires adherence with NSR requirements of 30 TAC Chapter 116, and finally indicates the permit number and the issuance date.

This is followed by the table of contents, which is generally composed of the following elements. Not all permits will have all of the elements.

- General Terms and Conditions
- Special Terms and Conditions
 - Emissions Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting
 - Additional Monitoring Requirements
 - o New Source Review Authorization Requirements

- o Compliance Requirements
- o Protection of Stratosphere Ozone
- o Permit Location
- Permit Shield (30 TAC § 122.148)
- Attachments
 - Applicable Requirements Summary
 - Unit Summary
 - Applicable Requirements Summary
 - Additional Monitoring Requirements
 - o Permit Shield
 - o New Source Review Authorization References
 - o Compliance Plan
 - o Alternative Requirements
- Appendix A
 - o Acronym list
- Appendix B
 - o Copies of major NSR authorizations

General Terms and Conditions

The General Terms and Conditions are the same and appear in all permits. The first paragraph lists the specific citations for 30 TAC Chapter 122 requirements that apply to all Title V permit holders. The second paragraph describes the requirements for record retention. The third paragraph provides details for voiding the permit, if applicable. The fourth paragraph states that the permit holder shall comply with the requirements of 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new construction or modification of emission units located in the area covered by this permit. The fifth paragraph provides details on submission of reports required by the permit.

Special Terms and Conditions

Emissions Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting. The TCEQ has designated certain applicable requirements as site-wide requirements. A site-wide requirement is a requirement that applies uniformly to all the units or activities at the site. Units with only site-wide requirements are addressed on Form OP-REQ1 and are not required to be listed separately on a OP-UA Form or Form OP-SUM. Form OP-SUM must list all units addressed in the application and provide identifying information, applicable OP-UA Forms, and preconstruction authorizations. The various OP-UA Forms provide the characteristics of each unit from which applicable requirements are established. Some exceptions exist as a few units may have both site-wide requirements and unit specific requirements.

Other conditions. The other entries under special terms and conditions are in general terms referring to compliance with the more detailed data listed in the attachments.

Attachments

Applicable Requirements Summary. The first attachment, the Applicable Requirements Summary, has two tables, addressing unit specific requirements. The first table, the Unit Summary, includes a list of units with applicable requirements, the unit type, the applicable regulation, and the requirement driver. The intent of the requirement driver is to inform the reader that a given unit may have several different operating scenarios and the differences between those operating scenarios.

The applicable requirements summary table provides the detailed citations of the rules that apply to the various units. For each unit and operating scenario, there is an added modifier called the "index number," detailed citations specifying monitoring and testing requirements, recordkeeping requirements, and reporting requirements. The data for this table are based on data supplied by the applicant on the OP-SUM and various OP-UA forms.

Additional Monitoring Requirement. The next attachment includes additional monitoring the applicant must perform to ensure compliance with the applicable standard. Compliance assurance monitoring (CAM) is often required to provide a reasonable assurance of compliance with applicable emission limitations/standards for large emission units that use control devices to achieve compliance with applicant requirements. When necessary, periodic monitoring (PM) requirements are specified for certain parameters (i.e. feed rates, flow rates, temperature, fuel type and consumption, etc.) to determine if a term and condition or emission unit is operating within specified limits to control emissions. These additional monitoring approaches may be required for two reasons. First, the applicable rules do not adequately specify monitoring requirements (exception- Maximum Achievable Control Technology Standards (MACTs) generally have sufficient monitoring), and second, monitoring may be required to fill gaps in the monitoring requirements of certain applicable requirements. In situations where the NSR permit is the applicable requirement requiring extra monitoring for a specific emission unit, the preferred solution is to have the monitoring requirements in the NSR permit updated so that all NSR requirements are consolidated in the NSR permit.

Permit Shield. A permit may or may not have a permit shield, depending on whether an applicant has applied for, and justified the granting of, a permit shield. A permit shield is a special condition included in the permit document stating that compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirement(s) or specified applicable state-only requirement(s).

New Source Review Authorization References. All activities which are related to emissions in the state of Texas must have a NSR authorization prior to beginning construction. This section lists all units in the permit and the NSR authorization that allowed the unit to be constructed or modified. Units that do not have unit specific applicable requirements other than the NSR authorization do not need to be listed in this attachment. While NSR permits are not physically a part of the Title V permit, they are legally incorporated into the Title V permit by reference. Those NSR permits whose emissions exceed certain PSD/NA thresholds must also undergo a Federal review of federally regulated pollutants in addition to review for state regulated pollutants.

Compliance Plan. A permit may have a compliance schedule attachment for listing corrective actions plans for any emission unit that is out of compliance with an applicable requirement.

Alternative Requirements. This attachment will list any alternative monitoring plans or alternative means of compliance for applicable requirements that have been approved by the EPA Administrator and/or the TCEQ Executive Director.

Appendix A

Acronym list. This attachment lists the common acronyms used when discussing the FOPs.

Appendix B

Copies of major NSR authorizations applicable to the units covered by this permit have been included in this Appendix, to ensure that all interested persons can access those authorizations.

Stationary vents subject to 30 TAC Chapter 111, Subchapter A, § 111.111(a)(1)(B) addressed in the Special Terms and Conditions

The site contains stationary vents with a flowrate less than 100,000 actual cubic feet per minute (acfm) and constructed either before or after January 31, 1972 which are limited, over a six-minute average, to 20% opacity as required by 30 TAC § 111.111(a)(1)(B). As a site may have a large number of stationary vents that fall into this category, they are not required to be listed individually in the permit's Applicable Requirement Summary. This is consistent with EPA's White Paper for Streamlined Development of Part 70 Permit Applications, July 10, 1995, that states that requirements that apply identically to emission units at a site can be treated on a generic basis such as source-wide opacity limits.

Periodic monitoring is specified in Special Term and Condition 3 for stationary vents subject to 30 TAC § 111.111(a)(1)(B) to verify compliance with the 20% opacity limit. These vents are not expected to produce visible emissions during normal operation. The TCEQ evaluated the probability of these sources violating the

opacity standards and determined that there is a very low potential that an opacity standard would be exceeded. It was determined that continuous monitoring for these sources is not warranted as there would be very limited environmental benefit in continuously monitoring sources that have a low potential to produce visible emissions. Therefore, the TCEQ set the visible observation monitoring frequency for these sources to once per calendar quarter.

The TCEQ has exempted vents that are not capable of producing visible emissions from periodic monitoring requirements. These vents include sources of colorless VOCs, non-fuming liquids, and other materials that cannot produce emissions that obstruct the transmission of light. Passive ventilation vents, such as plumbing vents, are also included in this category. Since this category of vents are not capable of producing opacity due to the physical or chemical characteristics of the emission source, periodic monitoring is not required as it would not yield any additional data to assure compliance with the 20% opacity standard of 30 TAC § 111.111(a)(1)(B).

In the event that visible emissions are detected, either through the quarterly observation or other credible evidence, such as observations from company personnel, the permit holder shall either report a deviation or perform a Test Method 9 observation to determine the opacity consistent with the 6-minute averaging time specified in 30 TAC § 111.111(a)(1)(B). An additional provision is included to monitor combustion sources more frequently than quarterly if alternate fuels are burned for periods greater than 24 consecutive hours. This will address possible emissions that may arise when switching fuel types.

Stationary Vents subject to 30 TAC Chapter 111 not addressed in the Special Terms and Conditions All other stationary vents subject to 30 TAC Chapter 111 not covered in the Special Terms and Conditions are listed in the permit's Applicable Requirement Summary. The basis for the applicability determinations for these vents is listed in the Determination of Applicable Requirements table.

Federal Regulatory Applicability Determinations

The following chart summarizes the applicability of the principal air pollution regulatory programs to the permit area:

Regulatory Program	Applicability (Yes/No)
Prevention of Significant Deterioration (PSD)	Yes
Nonattainment New Source Review (NNSR)	Yes
Minor NSR	Yes
40 CFR Part 60 - New Source Performance Standards	Yes
40 CFR Part 61 - National Emission Standards for Hazardous Air Pollutants (NESHAPs)	No
40 CFR Part 63 - NESHAPs for Source Categories	Yes
Title IV (Acid Rain) of the Clean Air Act (CAA)	No
Title V (Federal Operating Permits) of the CAA	Yes
Title VI (Stratospheric Ozone Protection) of the CAA	Yes
CSAPR (Cross-State Air Pollution Rule)	No

Basis for Applying Permit Shields

An operating permit applicant has the opportunity to specifically request a permit shield to document that specific applicable requirements do not apply to emission units in the permit. A permit shield is a special condition stating that compliance with the conditions of the permit shall be deemed compliance with the

specified potentially applicable requirements or specified potentially applicable state-only requirements. A permit shield has been requested in the application for specific emission units. For the permit shield requests that have been approved, the basis of determination for regulations that the owner/operator need not comply with are located in the "Permit Shield" attachment of the permit.

Insignificant Activities

In general, units not meeting the criteria for inclusion on either Form OP-SUM or Form OP-REQ1 are not required to be addressed in the operating permit application. Examples of these types of units include, but are not limited to, the following:

- 1. Office activities such as photocopying, blueprint copying, and photographic processes.
- 2. Sanitary sewage collection and treatment facilities other than those used to incinerate wastewater treatment plant sludge. Stacks or vents for sanitary sewer plumbing traps are also included.
- 3. Food preparation facilities including, but not limited to, restaurants and cafeterias used for preparing food or beverages primarily for consumption on the premises.
- 4. Outdoor barbecue pits, campfires, and fireplaces.
- 5. Laundry dryers, extractors, and tumblers processing bedding, clothing, or other fabric items generated primarily at the premises. This does not include emissions from dry cleaning systems using perchloroethylene or petroleum solvents.
- 6. Facilities storing only dry, sweet natural gas, including natural gas pressure regulator vents.
- 7. Any air separation or other industrial gas production, storage, or packaging facility. Industrial gases, for purposes of this list, include only oxygen, nitrogen, helium, neon, argon, krypton, and xenon.
- 8. Storage and handling of sealed portable containers, cylinders, or sealed drums.
- 9. Vehicle exhaust from maintenance or repair shops.
- 10. Storage and use of non-VOC products or equipment for maintaining motor vehicles operated at the site (including but not limited to, antifreeze and fuel additives).
- 11. Air contaminant detectors and recorders, combustion controllers and shut-off devices, product analyzers, laboratory analyzers, continuous emissions monitors, other analyzers and monitors, and emissions associated with sampling activities. Exception to this category includes sampling activities that are deemed fugitive emissions and under a regulatory leak detection and repair program.
- 12. Bench scale laboratory equipment and laboratory equipment used exclusively for chemical and physical analysis, including but not limited to, assorted vacuum producing devices and laboratory fume hoods.
- 13. Steam vents, steam leaks, and steam safety relief valves, provided the steam (or boiler feedwater) has not contacted other materials or fluids containing regulated air pollutants other than boiler water treatment chemicals.
- 14. Storage of water that has not contacted other materials or fluids containing regulated air pollutants other than boiler water treatment chemicals.
- 15. Well cellars.
- 16. Fire or emergency response equipment and training, including but not limited to, use of fire control equipment including equipment testing and training, and open burning of materials or fuels associated with firefighting training.
- 17. Crucible or pot furnaces with a brim full capacity of less than 450 cubic inches of any molten metal.
- 18. Equipment used exclusively for the melting or application of wax.
- 19. All closed tumblers used for the cleaning or deburring of metal products without abrasive blasting, and all open tumblers with a batch capacity of 1,000 lbs. or less.
- 20. Shell core and shell mold manufacturing machines.
- 21. Sand or investment molds with a capacity of 100 lbs. or less used for the casting of metals;
- 22. Equipment used for inspection of metal products.
- 23. Equipment used exclusively for rolling, forging, pressing, drawing, spinning, or extruding either hot or cold metals by some mechanical means.
- 24. Instrument systems utilizing air, natural gas, nitrogen, oxygen, carbon dioxide, helium, neon, argon, krypton, and xenon.
- 25. Battery recharging areas.
- 26. Brazing, soldering, or welding equipment.

Determination of Applicable Requirements

The tables below include the applicability determinations for the emission units, the index number(s) where applicable, and all relevant unit attribute information used to form the basis of the applicability determination. The unit attribute information is a description of the physical properties of an emission unit which is used to determine the requirements to which the permit holder must comply. For more information about the descriptions of the unit attributes specific Unit Attribute Forms may be viewed at www.tceq.texas.gov/permitting/air/nav/air_all_ua_forms.html.

A list of unit attribute forms is included at the end of this document. Some examples of unit attributes include construction date; product stored in a tank; boiler fuel type; etc.. Generally, multiple attributes are needed to determine the requirements for a given emission unit and index number. The table below lists these attributes in the column entitled "Basis of Determination." Attributes that demonstrate that an applicable requirement applies will be the factual basis for the specific citations in an applicable requirement that apply to a unit for that index number. The TCEQ Air Permits Division has developed flowcharts for determining applicability of state and federal regulations based on the unit attribute information in a Decision Support System (DSS). These flowcharts can be accessed via the internet at www.tceq.texas.gov/permitting/air/nav/air_supportsys.html. The Air Permits Division staff may also be contacted for assistance at (512) 239-1250.

The attributes for each unit and corresponding index number provide the basis for determining the specific legal citations in an applicable requirement that apply, including emission limitations or standards, monitoring, recordkeeping, and reporting. The rules were found to apply or not apply by using the unit attributes as answers to decision questions found in the flowcharts of the DSS. Some additional attributes indicate which legal citations of a rule apply. The legal citations that apply to each emission unit may be found in the Applicable Requirements Summary table of the draft permit. There may be some entries or rows of units and rules not found in the permit, or if the permit contains a permit shield, repeated in the permit shield area. These are sets of attributes that describe negative applicability, or; in other words, the reason why a potentially applicable requirement does not apply.

If applicability determinations have been made which differ from the available flowcharts, an explanation of the decisions involved in the applicability determination is specified in the column "Changes and Exceptions to RRT." If there were no exceptions to the DSS, then this column has been removed.

The draft permit includes all emission limitations or standards, monitoring, recordkeeping and reporting required by each applicable requirement. If an applicable requirement does not require monitoring, recordkeeping, or reporting, the word "None" will appear in the Applicable Requirements Summary table. If additional periodic monitoring is required for an applicable requirement, it will be explained in detail in the portion of this document entitled "Rationale for Compliance Assurance Monitoring (CAM)/ Periodic Monitoring Methods Selected."

When attributes demonstrate that a unit is not subject to an applicable requirement, the applicant may request a permit shield for those items. The portion of this document entitled "Basis for Applying Permit Shields" specifies which units, if any, have a permit shield.

Operational Flexibility

When an emission unit has multiple operating scenarios, it will have a different index number associated with each operating condition. This means that units are permitted to operate under multiple operating conditions. The applicable requirements for each operating condition are determined by a unique set of unit attributes. For example, a tank may store two different products at different points in time. The tank may, therefore, need to comply with two distinct sets of requirements, depending on the product that is stored. Both sets of requirements are included in the permit, so that the permit holder may store either product in the tank.

Determination of Applicable Requirements

Unit ID	Regulation	Index Number	Basis of Determination*
COMP-100	30 TAC Chapter 117, Subchapter B	117B-1	Type of Service = Used in research and testing, performance verification testing, solely to power other engines or turbines during startup, in response to and during any officially declared disaster or state of emergency or directly and exclusively in agriculture
COMP-100	40 CFR Part 60, Subpart IIII	60IIII-1	Applicability Date = Stationary CI ICE commenced construction, reconstruction, or modification on or before July 11, 2005.
COMP-100	40 CFR Part 63, Subpart ZZZZ	63ZZZZ-1	HAP Source = Any stationary source of hazardous air pollutants that is not a major source as defined in 40 CFR § 63.2. Brake HP = Stationary RICE with a brake HP less than 100 HP. Construction/Reconstruction Date = Commenced construction or reconstruction before December 19, 2002. Nonindustrial Emergency Engine - Stationary RICE is not defined in 40 CFR \$63.6675 as a residential emergency RICE is not defined in 40 CFR \$63.2.
			Nonindustrial Emergency Engine = Stationary RICE is not defined in 40 CFR §63.6675 as a residential emergency RICE, a commercial emergency RICE, or an institutional emergency RICE. Service Type = Limited use. Stationary RICE Type = Compression ignition engine
EG-100	30 TAC Chapter 117, Subchapter B	117B-1	Fuel Flow Monitoring = Fuel flow is monitored with a totalizing fuel flow meter permit 30 TAC §§ 117.140(a), 117.340(a) or 117.440(a). NOx Emission Limitation = Title 30 TAC §§ 117.310(d)(3) and 117.310(a)(9) CO Emission Limitation = Title 30 TAC §§ 117.310(c)(1) 3 g/hp-hr option CO Averaging Method = Complying with the applicable emission limit using a block one-hour average. CO Monitoring System = Emissions monitored by means other than a CEMS or PEMS. EGF System Cap Unit = Engine is not used as an electric generating facility to generate electricity for sale to the electric grid. Type of Service = SRIC engine not meeting an exemption Fuel Fired = Dual-fuel where at least one of the fuels is a fossil fuel NOx Averaging Method = Complying with the applicable emission limit using a block one-hour average. Engine Type = Lean-burn NOx Reduction = None ESAD Date Placed in Service = Placed into service on or prior to December 31, 2000. NOx Monitoring System = Maximum emission rate testing in accordance with 30 TAC § 117.8000
EG-100	40 CFR Part 60, Subpart IIII	60IIII-1	Applicability Date = Stationary CI ICE commenced construction, reconstruction, or modification on or before July 11, 2005.
EG-100	40 CFR Part 63, Subpart ZZZZ	63ZZZZ-1	Crankcase = The stationary CI RICE is equipped with a closed crankcase ventilation system. HAP Source = Any stationary source of hazardous air pollutants that is not a major source as defined in 40 CFR § 63.2. Brake HP = Stationary RICE with a brake HP greater than 500 HP. Performance Test = A performance test has been previously conducted that meets the conditions in 40 CFR § 63.6610(d)(1)-(5). Construction/Reconstruction Date = Commenced construction or reconstruction before December 19, 2002. Control Technique = Oxidation catalyst Different Schedule = Schedule specified in Subpart ZZZZ for submission of reports applies. Emission Limitation = Reducing carbon monoxide emissions from the stationary RICE

Unit ID	Regulation	Index Number	Basis of Determination*
			Nonindustrial Emergency Engine = Stationary RICE is not defined in 40 CFR §63.6675 as a residential emergency RICE, a commercial emergency RICE, or an institutional emergency RICE.
			Displacement = The stationary CI RICE has a displacement less than 30 liters per cylinder and uses diesel fuel.
			Monitoring System = Continuous parameter monitoring system
			Service Type = Normal use.
			Stationary RICE Type = Compression ignition engine
EG-200	30 TAC Chapter 117, Subchapter B	117B-1	Type of Service = Used exclusively in emergency situations [claiming the emergency service exemption under 30 TAC §§ 117.103(a)(6)(D), 117.203(a)(6)(D), 117.303(a)(6)(D) or 117.403(a)(7)(D)]
			Fuel Fired = Petroleum-based diesel fuel
EG-200	40 CFR Part 60, Subpart IIII	60IIII-1	Applicability Date = Stationary CI ICE commenced construction, reconstruction, or modification on or before July 11, 2005.
EG-200	40 CFR Part 63,	63ZZZZ-1	HAP Source = Any stationary source of hazardous air pollutants that is not a major source as defined in 40 CFR § 63.2.
	Subpart ZZZZ		Brake HP = Stationary RICE with a brake HP greater than or equal to 100 HP and less than 250 HP.
			Construction/Reconstruction Date = Commenced construction or reconstruction before December 19, 2002.
			Nonindustrial Emergency Engine = Stationary RICE is not defined in 40 CFR §63.6675 as a residential emergency RICE, a commercial emergency RICE, or an institutional emergency RICE.
			Service Type = Emergency use where the RICE does not operate or is not contractually obligated to be available for more than 15 hours per calendar year as specified in 40 CFR §63.6640(f)(2)(ii)-(iii) or does not operate as specified in 40 CFR §63.6640(f)(4)(ii).
			Stationary RICE Type = Compression ignition engine
GRP- ENGINE1	30 TAC Chapter 117, Subchapter B	117B-1	Type of Service = Used exclusively in emergency situations [claiming the emergency service exemption under 30 TAC §§ 117.103(a)(6)(D), 117.203(a)(6)(D), 117.303(a)(6)(D) or 117.403(a)(7)(D)]
			Fuel Fired = Petroleum-based diesel fuel
GRP- ENGINE1	40 CFR Part 60, Subpart IIII	60IIII-1	Applicability Date = Stationary CI ICE commenced construction, reconstruction, or modification on or before July 11, 2005.
GRP-	40 CFR Part 63,	63ZZZZ-1	HAP Source = Any stationary source of hazardous air pollutants that is not a major source as defined in 40 CFR § 63.2.
ENGINE1	Subpart ZZZZ		Brake HP = Stationary RICE with a brake HP greater than 500 HP.
		Constr	Construction/Reconstruction Date = Commenced construction or reconstruction before December 19, 2002.
			Nonindustrial Emergency Engine = Stationary RICE is not defined in 40 CFR §63.6675 as a residential emergency RICE, a commercial emergency RICE, or an institutional emergency RICE.
		Service Type = Emer per calendar year as	Service Type = Emergency use where the RICE does not operate or is not contractually obligated to be available for more than 15 hours per calendar year as specified in 40 CFR §63.6640(f)(2)(ii)-(iii) or does not operate as specified in 40 CFR §63.6640(f)(4)(ii).
			Stationary RICE Type = Compression ignition engine
GRP-TANK1		115B-1	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs	Alternate Control Requirement = Not usi	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Product Stored = Other than crude oil, condensate, or VOC

Unit ID	Regulation	Index Number	Basis of Determination*
GRP-TANK1	40 CFR Part 60, Subpart Kb	60Kb-1	Product Stored = Stored product other than volatile organic liquid or petroleum liquid
GRP-TANK2	30 TAC Chapter	115B-1	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is less than or equal to 1,000 gallons
GRP-TANK2	40 CFR Part 60,	60Kb-1	Product Stored = Volatile organic liquid
	Subpart Kb		Storage Capacity = Capacity is less than 10,600 gallons (40,000 liters)
GRP-TANK3	30 TAC Chapter	115B-1	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Tank Description = Tank using a submerged fill pipe
			True Vapor Pressure = True vapor pressure is less than 1.0 psia
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is greater than 1,000 gallons but less than or equal to 25,000 gallons
GRP-TANK3	40 CFR Part 60,	60Ka-1	Product Stored = Petroleum liquid (other than petroleum or condensate)
	Subpart Ka		Storage Capacity = Capacity is 40,000 gallons (151,416 liters) or less
GRP-TANK4	30 TAC Chapter	115B-1	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Tank Description = Tank using a submerged fill pipe
		True Vapor Pressure = True vapor pressure is less than 1.0 psia	True Vapor Pressure = True vapor pressure is less than 1.0 psia
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is greater than 1,000 gallons but less than or equal to 25,000 gallons
GRP-TANK4	40 CFR Part 60,	60Kb-1	Product Stored = Volatile organic liquid
	Subpart Kb		Storage Capacity = Capacity is less than 10,600 gallons (40,000 liters)
BLR-2	30 TAC Chapter 117, Subchapter B	117B-1	NOx Emission Limitation = Title 30 TAC § 117.310(d)(3) [relating to mass emissions cap and trade in 30 TAC Chapter 101, Subchapter H, Division 3 and Emission Specifications for Attainment Demonstration].
			Unit Type = Other industrial, commercial, or institutional boiler.
			Maximum Rated Capacity = MRC is greater than or equal to 100 MMBtu/hr but less than 200 MMBtu/hr.
			NOx Monitoring System = Continuous emissions monitoring system.
			Fuel Flow Monitoring = Fuel flow is monitored with a totalizing fuel flow meter per 30 TAC §§ 117.140(a), 117.340(a) or 117.440(a).
			CO Emission Limitation = Title 30 TAC § 117.310(c)(1) 400 ppmv option.
			CO Monitoring System = Continuous emissions monitoring system complying with 30 TAC § 117.8100(a)(1).

Unit ID	Regulation	Index Number	Basis of Determination*
			EGF System Cap Unit = The unit is not used as an electric generating facility to generate electricity for sale to the electric grid.
			Fuel Type #1 = Natural gas.
			NOx Emission Limit Average = Emission limit in pounds/hour on a block one-hour average.
			$NOx Reductions = No NO_x reduction.$
			Annual Heat Input = Annual heat input is greater than $2.2(10^{11})$ Btu/yr, based on rolling 12-month average.
BLR-2	40 CFR Part 60, Subpart D	60D-1	Construction/Modification Date = On or before August 17, 1971.
GRP- BOILER1	30 TAC Chapter 117, Subchapter B	117B-1	NOx Emission Limitation = Title 30 TAC § 117.310(d)(3) [relating to mass emissions cap and trade in 30 TAC Chapter 101, Subchapter H, Division 3 and Emission Specifications for Attainment Demonstration].
			Unit Type = Other industrial, commercial, or institutional boiler.
			Maximum Rated Capacity = MRC is greater than or equal to 100 MMBtu/hr but less than 200 MMBtu/hr.
			NOx Monitoring System = Continuous emissions monitoring system.
			Fuel Flow Monitoring = Fuel flow is monitored with a totalizing fuel flow meter per 30 TAC §§ 117.140(a), 117.340(a) or 117.440(a).
			CO Emission Limitation = Title 30 TAC § 117.310(c)(1) 400 ppmv option.
			CO Monitoring System = Continuous emissions monitoring system complying with 30 TAC § 117.8100(a)(1).
			EGF System Cap Unit = The unit is not used as an electric generating facility to generate electricity for sale to the electric grid.
			Fuel Type #1 = Natural gas.
			NOx Emission Limit Average = Emission limit in pounds/hour on a block one-hour average.
			$NOx Reductions = No NO_x reduction.$
			Annual Heat Input = Annual heat input is greater than $2.2(10^{11})$ Btu/yr, based on rolling 12-month average.
GRP-	40 CFR Part 60, Subpart D	60D-1	Construction/Modification Date = After August 17, 1971, and on or before December 22, 1976.
BOILER1			Covered Under Subpart Da = The steam generating unit is not covered under 40 CFR Part 60, Subpart Da.
			Changes to Existing Affected Facility = No change has been made to the existing fossil fuel-fired steam generating unit.
			Heat Input Rate = Heat input rate is less than or equal to 250 MMBtu/hr (73 MW).
GRP-	30 TAC Chapter	112A-1	Fuel Type = Liquid fuel with a sulfur content less than or equal to 0.3% by weight.
BOILER2	112, Sulfur Compounds	, Sulfur Heat Input – Design heat input is le	Heat Input = Design heat input is less than or equal to 250 MMBtu/hr.
	Compounds		Stack Height = The effective stack height is less than the standard effective stack height for each stack to which the unit routes emissions.
GRP- BOILER2	30 TAC Chapter 117, Subchapter B	117B-1	NOx Emission Limitation = Title 30 TAC § 117.310(d)(3) [relating to mass emissions cap and trade in 30 TAC Chapter 101, Subchapter H, Division 3 and Emission Specifications for Attainment Demonstration].
			Unit Type = Other industrial, commercial, or institutional boiler.
			Maximum Rated Capacity = MRC is greater than or equal to 100 MMBtu/hr but less than 200 MMBtu/hr.
			NOx Monitoring System = Continuous emissions monitoring system.
			Fuel Flow Monitoring = Fuel flow is monitored with a totalizing fuel flow meter per 30 TAC §§ 117.140(a), 117.340(a) or 117.440(a).
			CO Emission Limitation = Title 30 TAC § 117.310(c)(1) 400 ppmv option.
			CO Monitoring System = Continuous emissions monitoring system complying with 30 TAC § 117.8100(a)(1).

Unit ID	Regulation	Index Number	Basis of Determination*
			EGF System Cap Unit = The unit is not used as an electric generating facility to generate electricity for sale to the electric grid.
			Fuel Type #1 = Natural gas.
			NOx Emission Limit Average = Emission limit in pounds/hour on a block one-hour average.
			$NOx Reductions = No NO_x reduction.$
			Annual Heat Input = Annual heat input is greater than 2.2(1011) Btu/yr, based on rolling 12-month average.
GRP- BOILER2	30 TAC Chapter 117, Subchapter B	117B-2	NOx Emission Limitation = Title 30 TAC § 117.310(d)(3) [relating to mass emissions cap and trade in 30 TAC Chapter 101, Subchapter H, Division 3 and Emission Specifications for Attainment Demonstration].
			Unit Type = Other industrial, commercial, or institutional boiler.
			Maximum Rated Capacity = MRC is greater than or equal to 100 MMBtu/hr but less than 200 MMBtu/hr.
			NOx Monitoring System = Continuous emissions monitoring system.
			Fuel Flow Monitoring = Fuel flow is monitored with a totalizing fuel flow meter per 30 TAC §§ 117.140(a), 117.340(a) or 117.440(a).
			CO Emission Limitation = Title 30 TAC § 117.310(c)(1) 400 ppmv option.
			CO Monitoring System = Continuous emissions monitoring system complying with 30 TAC § 117.8100(a)(1).
			EGF System Cap Unit = The unit is not used as an electric generating facility to generate electricity for sale to the electric grid.
			Fuel Type #1 = Liquid fuel
			NOx Emission Limit Average = Emission limit in pounds/hour on a block one-hour average.
			$NOx Reductions = No NO_x reduction.$
			Annual Heat Input = Annual heat input is greater than $2.2(10^{11})$ Btu/yr, based on rolling 12-month average.
GRP-	40 CFR Part 60,	60D-1	Construction/Modification Date = After September 18, 1978.
BOILER2	Subpart D		Covered Under Subpart Da = The steam generating unit is not covered under 40 CFR Part 60, Subpart Da.
			Changes to Existing Affected Facility = No change has been made to the existing fossil fuel-fired steam generating unit.
			Heat Input Rate = Heat input rate is less than or equal to 250 MMBtu/hr (73 MW).
GRP-	40 CFR Part 60,	60Db-1	60.42b(k)(2) Low Sulfur Exemption = The § 60.42 b(k)(2) exemption applies.
BOILER2	Subpart Db		Construction/Modification Date = Constructed or reconstructed after February 28, 2005.
		D-Series Fuel Type #1 = N	D-Series Fuel Type #1 = Natural gas.
			Heat Input Capacity = Heat input capacity is greater than 100 MMBtu/hr (29 MW) but less than or equal to 250 MMBtu/hr (73 MW).
			PM Monitoring Type = No particulate monitoring.
			Opacity Monitoring Type = No particulate (opacity) monitoring.
			Subpart Da = The affected facility does not meet applicability requirements of 40 CFR Part 60, Subpart Da.
		subject to 40 CF	Changes to Existing Affected Facility = No change has been made to the existing steam generating unit, which was not previously subject to 40 CFR Part 60, Subpart Db, for the sole purpose of combusting gases containing totally reduced sulfur as defined under 40 CFR § 60.281.
			NOx Monitoring Type = Continuous emission monitoring system.
			Electrical or Mechanical Output = 10% or less of the annual output is electrical or mechanical.
			SO2 Monitoring Type = Fuel certification (maintaining receipts per § 60.49b(r)(1)).
			Subpart Ea, Eb or AAAA = The affected facility does not meet applicability requirements of and is subject to 40 CFR Part 60, Subpart Ea,

Unit ID	Regulation	Index Number	Basis of Determination*
			Eb or AAAA.
			Subpart J = The affected facility does not meet applicability requirements of 40 CFR Part 60, Subpart J.
			Subpart E = The affected facility does not meet applicability requirements of 40 CFR Part 60, Subpart E.
			Subpart KKKK = The affected facility is not a heat recovery steam generator associated with combined cycle gas turbines and that meets applicability requirements of and is subject to 40 CFR Part 60, Subpart KKKK.
			Technology Type = None.
			ACF Option - SO2 = Other ACF or no ACF.
			Subpart Cb or BBBB = The affected facility is not covered by an EPA approved State or Federal section $111(d)/129$ plan implementing 40 CFR Part 60, Subpart Cb or BBBB emission guidelines.
			Unit Type = Other unit type
			ACF Option - PM = Other ACF or no ACF.
			Heat Release Rate = Natural gas with a heat release rate less than or equal to 70 MBtu/hr/ft ³ .
			60.49Da(n) Alternative = The facility is not using the § 60.49Da(n) alternative.
			ACF Option - NOx = Other ACF or no ACF.
			Heat Input Gas/Oil = The facility combusts natural gas or distillate oil in excess of 30% of the heat input from the combustion of all fuels.
			60.49Da(m) Alternative = The facility is not using the § 60.49Da(m) alternative.
GRP-	40 CFR Part 60,	60Db-2	60.42b(k)(2) Low Sulfur Exemption = The § 60.42 b(k)(2) exemption applies.
BOILER2	Subpart Db		Construction/Modification Date = Constructed or reconstructed after February 28, 2005.
			D-Series Fuel Type #1 = Distillate oil that contains no more than 0.3 weight percent sulfur or has a SO_2 emission rate less than 140 ng/J (0.32 lb/MMBtu) heat input.
			Heat Input Capacity = Heat input capacity is greater than 100 MMBtu/hr (29 MW) but less than or equal to 250 MMBtu/hr (73 MW).
			PM Monitoring Type = No particulate monitoring.
			Opacity Monitoring Type = No particulate (opacity) monitoring.
			Subpart Da = The affected facility does not meet applicability requirements of 40 CFR Part 60, Subpart Da.
			Changes to Existing Affected Facility = No change has been made to the existing steam generating unit, which was not previously subject to 40 CFR Part 60, Subpart Db, for the sole purpose of combusting gases containing totally reduced sulfur as defined under 40 CFR § 60.281.
			NOx Monitoring Type = Continuous emission monitoring system.
			Electrical or Mechanical Output = 10% or less of the annual output is electrical or mechanical.
			SO2 Monitoring Type = Fuel certification (maintaining receipts per § 60.49b(r)(1)).
			Subpart Ea, Eb or AAAA = The affected facility does not meet applicability requirements of and is subject to 40 CFR Part 60, Subpart Ea, Eb or AAAA.
			Subpart J = The affected facility does not meet applicability requirements of 40 CFR Part 60, Subpart J.
			Subpart E = The affected facility does not meet applicability requirements of 40 CFR Part 60, Subpart E.
			Subpart KKKK = The affected facility is not a heat recovery steam generator associated with combined cycle gas turbines and that meets applicability requirements of and is subject to 40 CFR Part 60, Subpart KKKK.
			Technology Type = None.

Unit ID	Regulation	Index Number	Basis of Determination*
			ACF Option - SO2 = Other ACF or no ACF.
			Subpart Cb or BBBB = The affected facility is not covered by an EPA approved State or Federal section $111(d)/129$ plan implementing 40 CFR Part 60, Subpart Cb or BBBB emission guidelines.
			Unit Type = OTHER UNIT TYPE
			ACF Option - PM = Other ACF or no ACF.
			Heat Release Rate = Natural gas with a heat release rate less than or equal to 70 MBtu/hr/ft³.
			60.49Da(n) Alternative = The facility is not using the § 60.49Da(n) alternative.
			ACF Option - NOx = Other ACF or no ACF.
			Heat Input Gas/Oil = The facility combusts natural gas or distillate oil in excess of 30% of the heat input from the combustion of all fuels.
			60.49Da(m) Alternative = The facility is not using the § 60.49Da(m) alternative.
CTG-1	30 TAC Chapter	117B-1	Fuel Flow Monitoring = Fuel flow is with a totalizing fuel flow meter per 30 TAC §§ 117.140(a), 117.340(a) or 117.440(a).
	117, Subchapter B		Megawatt Rating = MR is greater than or equal to 30 MW.
			CO Emission Limitation = Title 30 TAC § 117.310(c)(1).
			EGF System Cap Unit = The engine is used as an electric generating facility to generate electricity for sale to the electric grid.
			Averaging Method = Complying with the applicable emission limits using a block one-hour average.
			CO Monitoring System = Continuous emissions monitoring system complying with 30 TAC § 117.8100(a)(1).
			NH3 Emission Limitation = Title 30 TAC § 117.310(c)(2).
			NOx Reduction = Post combustion control technique with ammonia injection.
			Service Type = Stationary gas turbine.
			NH3 Monitoring = Continuous emissions monitoring system.
			NOx Emission Limitation = Title 30 TAC §§ 117.310(d)(3) and 117.310(a)(10) or 117.310(a)(11).
			NOx Monitoring System = Continuous emissions monitoring system.
CTG-1	40 CFR Part 60,	60KKKK-1	75% of Peak = The combustion turbine does not operate at less than 75% of peak load or at temperatures less than zero degrees F.
	Subpart KKKK	Location = The turbine is not located in a noncontinental area nor	Location = The turbine is not located in a noncontinental area nor in a continental area for which the Administrator has determined does not have access to natural gas and that the removal of sulfur compounds would do more environmental harm than benefit.
			Unit Type = Combined Heat and Power Combustion Turbine
			Construction/Modification Date = Turbine was constructed after February 18, 2005.
			SO_2 Standard = The heat input based SO_2 emission standard in § 60.4330(a)(2) or (a)(3) is being used.
			Fuel Monitoring = All fuels used are demonstrated not to exceed the potential emissions standard in § 60.4365.
			Heat Input = Turbine has a heat input at peak load of at least 50 MMBtu/hr but less than 850 MMBtu/hr.
			Fuel Quality = Fuel is demonstrated not to exceed emission standard by characteristics in purchase contract or tariff sheet.
			$NOx Control = NO_x$ emissions are not being controlled by steam or water injection.
			Subject to Da = The combustion turbine is not located at an integrated gasification combined cycle electric utility steam generating unit subject to Subpart Da of Part 60.
			$NOx Monitoring = A diluent NO_x CEMS is used.$

Unit ID	Regulation	Index Number	Basis of Determination*
			Performance Test = Sulfur content of the fuel combusted in the turbine is being periodically determined.
			Service Type = Service other than emergency service, as defined in § 60.4420(i), or research and development.
			Common Steam Header = A steam header is not utilized.
			NOx Standard = The parts per million NO_x emission standard in Table 1 is being used.
			Duct Burner = The heat recovery system includes a duct burner.
			Fuel Type = 100% natural gas.
CTG-1	40 CFR Part 60,	60KKKK-2	75% of Peak = The combustion turbine does not operate at less than 75% of peak load or at temperatures less than zero degrees F.
	Subpart KKKK		Location = The turbine is not located in a noncontinental area nor in a continental area for which the Administrator has determined does not have access to natural gas and that the removal of sulfur compounds would do more environmental harm than benefit.
			Unit Type = Combined Heat and Power Combustion Turbine
			Construction/Modification Date = Turbine was constructed after February 18, 2005.
			SO_2 Standard = The heat input based SO_2 emission standard in § 60.4330(a)(2) or (a)(3) is being used.
			Fuel Monitoring = All fuels used are demonstrated not to exceed the potential emissions standard in § 60.4365.
			Heat Input = Turbine has a heat input at peak load of at least 50 MMBtu/hr but less than 850 MMBtu/hr.
			Fuel Quality = Fuel is demonstrated not to exceed emission standard by characteristics in purchase contract or tariff sheet.
			$NOx Control = NO_x$ emissions are not being controlled by steam or water injection.
			Subject to Da = The combustion turbine is not located at an integrated gasification combined cycle electric utility steam generating unit subject to Subpart Da of Part 60.
			NOx Monitoring = A diluent NO_x CEMS is used.
			Performance Test = Sulfur content of the fuel combusted in the turbine is being periodically determined.
			Service Type = Service other than emergency service, as defined in § 60.4420(i), or research and development.
			Common Steam Header = A steam header is not utilized.
			NOx Standard = The parts per million NO_x emission standard in Table 1 is being used.
			Duct Burner = The heat recovery system does not include a duct burner.
			Fuel Type = 100% natural gas.
CTG-1	40 CFR Part 60,	60KKKK-3	75% of Peak = The combustion turbine operates at less than 75% of peak load or at temperatures less than zero degrees F.
	Subpart KKKK		Location = The turbine is not located in a noncontinental area nor in a continental area for which the Administrator has determined does not have access to natural gas and that the removal of sulfur compounds would do more environmental harm than benefit.
			Unit Type = Combined Heat and Power Combustion Turbine
			30 MW = The combustion turbine has an output of 30 MW or greater.
			Construction/Modification Date = Turbine was constructed after February 18, 2005.
			SO_2 Standard = The heat input based SO_2 emission standard in § 60.4330(a)(2) or (a)(3) is being used.
			Fuel Monitoring = All fuels used are demonstrated not to exceed the potential emissions standard in § 60.4365.
			Heat Input = Turbine has a heat input at peak load of at least 50 MMBtu/hr but less than 850 MMBtu/hr.
			Fuel Quality = Fuel is demonstrated not to exceed emission standard by characteristics in purchase contract or tariff sheet.
			$NOx Control = NO_x$ emissions are not being controlled by steam or water injection.

Unit ID	Regulation	Index Number	Basis of Determination*
			Subject to Da = The combustion turbine is not located at an integrated gasification combined cycle electric utility steam generating unit subject to Subpart Da of Part 60.
			$NOx Monitoring = A diluent NO_x CEMS is used.$
			Performance Test = Sulfur content of the fuel combusted in the turbine is being periodically determined.
			Service Type = Service other than emergency service, as defined in § 60.4420(i), or research and development.
			Common Steam Header = A steam header is not utilized.
			NOx Standard = The parts per million NO_x emission standard in Table 1 is being used.
			Duct Burner = The heat recovery system includes a duct burner.
			Fuel Type = 100% natural gas.
CTG-1	40 CFR Part 60,	60KKKK-4	75% of Peak = The combustion turbine operates at less than 75% of peak load or at temperatures less than zero degrees F.
	Subpart KKKK		Location = The turbine is not located in a noncontinental area nor in a continental area for which the Administrator has determined does not have access to natural gas and that the removal of sulfur compounds would do more environmental harm than benefit.
			Unit Type = Combined Heat and Power Combustion Turbine
			30 MW = The combustion turbine has an output of 30 MW or greater.
			Construction/Modification Date = Turbine was constructed after February 18, 2005.
			SO_2 Standard = The heat input based SO_2 emission standard in § 60.4330(a)(2) or (a)(3) is being used.
			Fuel Monitoring = All fuels used are demonstrated not to exceed the potential emissions standard in § 60.4365.
			Heat Input = Turbine has a heat input at peak load of at least 50 MMBtu/hr but less than 850 MMBtu/hr.
			Fuel Quality = Fuel is demonstrated not to exceed emission standard by characteristics in purchase contract or tariff sheet.
			$NOx Control = NO_x$ emissions are not being controlled by steam or water injection.
			Subject to Da = The combustion turbine is not located at an integrated gasification combined cycle electric utility steam generating unit subject to Subpart Da of Part 60.
			$NOx Monitoring = A diluent NO_x CEMS is used.$
			Performance Test = Sulfur content of the fuel combusted in the turbine is being periodically determined.
			Service Type = Service other than emergency service, as defined in § 60.4420(i), or research and development.
			Common Steam Header = A steam header is not utilized.
			NOx Standard = The parts per million NO_x emission standard in Table 1 is being used.
			Duct Burner = The heat recovery system does not include a duct burner.
			Fuel Type = 100% natural gas.
CTG-1	40 CFR Part 60,	60KKKK-5	75% of Peak = The combustion turbine operates at less than 75% of peak load or at temperatures less than zero degrees F.
	Subpart KKKK		Location = The turbine is not located in a noncontinental area nor in a continental area for which the Administrator has determined does not have access to natural gas and that the removal of sulfur compounds would do more environmental harm than benefit.
			Unit Type = Combined Heat and Power Combustion Turbine
			30 MW = The combustion turbine has an output of less than 30 MW.
			Construction/Modification Date = Turbine was constructed after February 18, 2005.
			SO_2 Standard = The heat input based SO_2 emission standard in § 60.4330(a)(2) or (a)(3) is being used.

Unit ID	Regulation	Index Number	Basis of Determination*
			Fuel Monitoring = All fuels used are demonstrated not to exceed the potential emissions standard in § 60.4365.
			Heat Input = Turbine has a heat input at peak load of at least 50 MMBtu/hr but less than 850 MMBtu/hr.
			Fuel Quality = Fuel is demonstrated not to exceed emission standard by characteristics in purchase contract or tariff sheet.
			NOx Control = NO_x emissions are not being controlled by steam or water injection.
			Subject to Da = The combustion turbine is not located at an integrated gasification combined cycle electric utility steam generating unit subject to Subpart Da of Part 60.
			NOx Monitoring = A diluent NO_x CEMS is used.
			Performance Test = Sulfur content of the fuel combusted in the turbine is being periodically determined.
			Service Type = Service other than emergency service, as defined in § 60.4420(i), or research and development.
			Common Steam Header = A steam header is not utilized.
			NOx Standard = The parts per million NO_x emission standard in Table 1 is being used.
			Duct Burner = The heat recovery system includes a duct burner.
			Fuel Type = 100% natural gas.
CTG-1	40 CFR Part 60,		75% of Peak = The combustion turbine operates at less than 75% of peak load or at temperatures less than zero degrees F.
	Subpart KKKK		Location = The turbine is not located in a noncontinental area nor in a continental area for which the Administrator has determined does not have access to natural gas and that the removal of sulfur compounds would do more environmental harm than benefit.
			Unit Type = Combined Heat and Power Combustion Turbine
			30 MW = The combustion turbine has an output of less than 30 MW.
			Construction/Modification Date = Turbine was constructed after February 18, 2005.
			SO_2 Standard = The heat input based SO_2 emission standard in § 60.4330(a)(2) or (a)(3) is being used.
			Fuel Monitoring = All fuels used are demonstrated not to exceed the potential emissions standard in § 60.4365.
			Heat Input = Turbine has a heat input at peak load of at least 50 MMBtu/hr but less than 850 MMBtu/hr.
			Fuel Quality = Fuel is demonstrated not to exceed emission standard by characteristics in purchase contract or tariff sheet.
			$NOx Control = NO_x$ emissions are not being controlled by steam or water injection.
			Subject to Da = The combustion turbine is not located at an integrated gasification combined cycle electric utility steam generating unit subject to Subpart Da of Part 60.
			NOx Monitoring = A diluent NO_x CEMS is used.
			Performance Test = Sulfur content of the fuel combusted in the turbine is being periodically determined.
			Service Type = Service other than emergency service, as defined in § 60.4420(i), or research and development.
			Common Steam Header = A steam header is not utilized.
			NOx Standard = The parts per million NO_x emission standard in Table 1 is being used.
			Duct Burner = The heat recovery system does not include a duct burner.
			Fuel Type = 100% natural gas.
GRP-FUGS	30 TAC Chapter 115, HRVOC Fugitive Emissions	115H-1	Title 30 TAC §115.780 Applicable = The fugitive unit does not contain a defined process or does not contain Highly Reactive VOC.

Unit ID	Regulation	Index Number	Basis of Determination*
GRP- TOWER1	40 CFR Part 63, Subpart Q	63Q-1	Used Compounds Containing Chromium on or After September 8, 1994 = The industrial process cooling tower has not used compounds containing chromium on or after September 8, 1994.
CHP-1	30 TAC Chapter 111, Visible Emissions	111A-1	Alternate Opacity Limitation = Not complying with an alternate opacity limit under 30 TAC § 111.113.
			Vent Source = The source of the vent is not a steam generator fired by solid fossil fuel, oil or a mixture of oil and gas and is not a catalyst regenerator for a fluid bed catalytic cracking unit.
			Opacity Monitoring System = Optical instrument capable of measuring the opacity of emissions is not installed in the vent or optical instrumentation does not meet the requirements of $\S 111.111(a)(1)(D)$, or the vent stream does not qualify for the exemption in $\S 111.111(a)(3)$.
			Construction Date = After January 31, 1972
			Effluent Flow Rate = Effluent flow rate is at least 100,000 actual cubic feet per minute.
GRP-VENT1	30 TAC Chapter 111, Visible Emissions	111A-1	Alternate Opacity Limitation = Not complying with an alternate opacity limit under 30 TAC § 111.113.
			Vent Source = The source of the vent is not a steam generator fired by solid fossil fuel, oil or a mixture of oil and gas and is not a catalyst regenerator for a fluid bed catalytic cracking unit.
			Opacity Monitoring System = Optical instrument capable of measuring the opacity of emissions is not installed in the vent or optical instrumentation does not meet the requirements of § $111.111(a)(1)(D)$, or the vent stream does not qualify for the exemption in § $111.111(a)(3)$.
			Construction Date = On or before January 31, 1972
			Effluent Flow Rate = Effluent flow rate is less than 100,000 actual cubic feet per minute.
GRP-	30 TAC Chapter 115, Degreasing Processes	115E-1	Solvent Degreasing Machine Type = Remote reservoir cold solvent cleaning machine.
DEGREASER			Alternate Control Requirement = The TCEQ Executive Director has not approved an alternative control requirement as allowed under 30 TAC § 115.413 or not alternative has been requested.
			Solvent Sprayed = A solvent is sprayed.
			Solvent Vapor Pressure = Solvent vapor pressure is less than or equal to 0.6 psia as measured at 100 degrees Fahrenheit.
			Solvent Heated = The solvent is not heated to a temperature greater than 120° F.
			Parts Larger than Drainage = No cleaned parts for which the machine is authorized to clean are larger than the internal drainage facility of the machine.
			Drainage Area = Area is less than 16 square inches.
			Disposal in Enclosed Containers = Waste solvent is properly disposed of in enclosed containers.
PAINT	30 TAC Chapter 115, Subchapter E, Division 5	115E-1	Exemption = The surface coating process is performed using only aerosol coating as defined in §115.450.

 $[\]mbox{\ensuremath{*}}$ - The "unit attributes" or operating conditions that determine what requirements apply

NSR vs. Title V FOP

The state of Texas has two Air permitting programs, New Source Review (NSR) and Title V Federal Operating Permits. The two programs are substantially different both in intent and permit content.

NSR is a preconstruction permitting program authorized by the Texas Clean Air Act and Title I of the Federal Clean Air Act (FCAA). The processing of these permits is governed by 30 Texas Administrative Code (TAC) Chapter 116.111. The Title V Federal Operating Program is a federal program authorized under Title V of the FCAA that has been delegated to the state of Texas to administer and is governed by 30 TAC Chapter 122. The major differences between the two permitting programs are listed in the table below:

NSR Permit	Federal Operating Permit(FOP)
Issued Prior to new Construction or modification	For initial permit with application shield, can be issued
of an existing facility	after operation commences; significant revisions require
	approval prior to operation.
Authorizes air emissions	Codifies existing applicable requirements, does not
	authorize new emissions
Ensures issued permits are protective of the	Applicable requirements listed in permit are used by
environment and human health by conducting a	the inspectors to ensure proper operation of the site as
health effects review and that requirement for best available control technology (BACT) is	authorized. Ensures that adequate monitoring is in place to allow compliance determination with the FOP.
implemented.	place to allow compliance determination with the FOP.
Up to two Public notices may be required.	One public notice required. Opportunity for public
Opportunity for public comment and contested	comments. No contested case hearings.
case hearings for some authorizations.	
Applies to all point source emissions in the state.	Applies to all major sources and some non-major
Annalis to Contilition of the continue of the	sources identified by the EPA.
Applies to facilities: a portion of site or individual emission sources	One or multiple FOPs cover the entire site (consists of multiple facilities)
Permits include terms and conditions under	Permits include terms and conditions that specify the
which the applicant must construct and operate	general operational requirements of the site; and also
its various equipment and processes on a facility	include codification of all applicable requirements for
basis.	emission units at the site.
Opportunity for EPA review for Federal	Opportunity for EPA review, Affected states review, and
Prevention of Significant Deterioration (PSD) and	a Public petition period for every FOP.
Nonattainment (NA) permits for major sources.	
Permits have a table listing maximum emission	Permit has an applicable requirements table and
limits for pollutants	Periodic Monitoring (PM) / Compliance Assurance
	Monitoring (CAM) tables which document applicable
Dormita can be altered or amended year	monitoring requirements.
Permits can be altered or amended upon	Permits can be revised through several revision
application by company. Permits must be issued before construction or modification of facilities	processes, which provide for different levels of public notice and opportunity to comment. Changes that
can begin.	would be significant revisions require that a revised
can ocgin.	permit be issued before those changes can be operated.
NSR permits are issued independent of FOP	FOP are independent of NSR permits, but contain a list
requirements.	of all NSR permits incorporated by reference
requiremento.	or an more permitto incorporated by reference

New Source Review Requirements

Below is a list of the New Source Review (NSR) permits for the permitted area. These NSR permits are incorporated by reference into the operating permit and are enforceable under it. These permits can be found in the main TCEQ file room, located on the first floor of Building E, 12100 Park 35 Circle, Austin, Texas. The Public Education Program may be contacted at 1-800-687-4040 or the Air Permits Division (APD) may be contacted at 1-512-239-1250 for help with any question.

Additionally, the site contains emission units that are permitted by rule under the requirements of 30 TAC Chapter 106, Permits by Rule. The following table specifies the permits by rule that apply to the site. All current permits by rule are contained in Chapter 106. Outdated 30 TAC Chapter 106 permits by rule may be viewed at the following Web site:

www.tceq.texas.gov/permitting/air/permitbyrule/historical_rules/old106list/index106.html

Outdated Standard Exemption lists may be viewed at the following Web site:

www.tceq.texas.gov/permitting/air/permitbyrule/historical_rules/oldselist/se_index.html

The status of air permits and applications and a link to the Air Permits Remote Document Server is located at the following Web site:

www.tceq.texas.gov/permitting/air/nav/air_status_permits.html

Prevention of Significant Deterioration (PSD) Permits					
PSD Permit No.: PSDTX1103	Issuance Date: 06/06/2011				
Nonattainment (NA) Permits					
NA Permit No.: N71	Issuance Date: 06/06/2011				
Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.					
Authorization No.: 46189	Issuance Date: 06/06/2011				
Authorization No.: 8727	Issuance Date: 04/18/2006				
Permits By Rule (30 TAC Chapter 106) for the Application Area					
Number: 106.227	Version No./Date: 09/04/2000				
Number: 106.263	Version No./Date: 11/01/2001				
Number: 106.371	Version No./Date: 09/04/2000				
Number: 106.454	Version No./Date: 09/04/2000				
Number: 106.472	Version No./Date: 09/04/2000				
Number: 106.473	Version No./Date: 09/04/2000				
Number: 106.511	Version No./Date: 09/04/2000				
Number: 106.512	Version No./Date: 06/13/2001				
Number: 3	Version No./Date: 09/17/1973				
Number: 3	Version No./Date: 04/04/1975				
Number: 8	Version No./Date: 12/01/1972				
Number: 51	Version No./Date: 11/05/1986				

Number: 58	Version No./Date: 09/23/1982
Number: 103	Version No./Date: 07/20/1992

Emission Units and Emission Points

In air permitting terminology, any source capable of generating emissions (for example, an engine or a sandblasting area) is called an Emission Unit. For purposes of Title V, emission units are specifically listed in the operating permit when they have applicable requirements other than New Source Review (NSR), or when they are listed in the permit shield table.

The actual physical location where the emissions enter the atmosphere (for example, an engine stack or a sand-blasting yard) is called an emission point. For New Source Review preconstruction permitting purposes, every emission unit has an associated emission point. Emission limits are listed in an NSR permit, associated with an emission point. This list of emission points and emission limits per pollutant is commonly referred to as the "Maximum Allowable Emission Rate Table", or "MAERT" for short. Specifically, the MAERT lists the Emission Point Number (EPN) that identifies the emission point, followed immediately by the Source Name, identifying the emission unit that is the source of those emissions on this table.

Thus, by reference, an emission unit in a Title V operating permit is linked by reference number to an NSR authorization, and its related emission point.

Monitoring Sufficiency

Federal and state rules, 40 CFR § 70.6(a)(3)(i)(B) and 30 TAC § 122.142(c) respectively, require that each federal operating permit include additional monitoring for applicable requirements that lack periodic or instrumental monitoring (which may include recordkeeping that serves as monitoring) that yields reliable data from a relevant time period that are representative of the emission unit's compliance with the applicable emission limitation or standard. Furthermore, the federal operating permit must include compliance assurance monitoring (CAM) requirements for emission sources that meet the applicability criteria of 40 CFR Part 64 in accordance with 40 CFR § 70.6(a)(3)(i)(A) and 30 TAC § 122.604(b).

With the exception of any emission units listed in the Periodic Monitoring or CAM Summaries in the FOP, the TCEQ Executive Director has determined that the permit contains sufficient monitoring, testing, recordkeeping, and reporting requirements that assure compliance with the applicable requirements. If applicable, each emission unit that requires additional monitoring in the form of periodic monitoring or CAM is described in further detail under the Rationale for CAM/PM Methods Selected section following this paragraph.

Rationale for Compliance Assurance Monitoring (CAM)/ Periodic Monitoring Methods Selected

Periodic Monitoring:

The Federal Clean Air Act requires that each federal operating permit include monitoring sufficient to assure compliance with the terms and conditions of the permit. Most of the emission limits and standards applicable to emission units at Title V sources include adequate monitoring to show that the units meet the limits and standards. For those requirements that do not include monitoring, or where the monitoring is not sufficient to assure compliance, the federal operating permit must include such monitoring for the emission units affected. The following emission units are subject to periodic monitoring requirements because the emission units are subject to an emission limitation or standard for an air pollutant (or surrogate thereof) in an applicable requirement that does not already require monitoring, or the monitoring for the applicable requirement is not sufficient to assure compliance:

Unit/Group/Process Information				
ID No.: CHP-1				
Control Device ID No.: N/A	Control Device Type: N/A			
Applicable Regulatory Requirement				
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: 111A-1			
Pollutant: PM (OPACITY)	Main Standard: § 111.111(a)(1)(C)			
Monitoring Information				
Indicator: Fuel Type				
Minimum Frequency: Annually or at any time an alternate fuel is used				
Averaging Period: n/a				
Deviation Limit: There shall be no visible emissions. If visible emissions are observed during the firing of an alternate fuel, the permit holder shall either report a deviation or perform Test Method 9 and opacity shall				

Basis of monitoring:

not exceed 15%.

Industry has demonstrated through performance tests and historical data that opacity and particulate matter standards are consistently met when combustion units fire natural gas only. If the emission unit fires a different fuel for more than 24 hours, the permit holder may elect to perform opacity readings or visible emissions to demonstrate compliance is consistent with EPA Reference Test Method 9 and 22. Opacity and visible emissions have been used as an indicator of particulate emissions in many federal rules including 40 CFR Part 60, Subpart F and Subpart HH. In addition, use of these indicators is consistent with the EPA's "Compliance Assurance Monitoring (CAM) Technical Guidance Document" (August 1998). Monitoring specifications and procedures for the opacity are consistent with federal requirements and include the EPA's Test Method 9 for determining opacity by visual observations and the requirements of 40 CFR § 60.13 for a continuous opacity monitoring system (COMS). The monitoring specifications and procedures for the visible emissions monitoring are similar to "EPA Reference Method 22" procedures.

Unit/Group/Process Information				
ID No.: GRP-BOILER2				
Control Device ID No.: N/A	Control Device Type: N/A			
Applicable Regulatory Requirement				
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: 112A-1			
Pollutant: SO ₂	Main Standard: § 112.9(c)			
Monitoring Information				

Indicator: Sulfur content of No.2 fuel oil

Minimum Frequency: Anytime No. 2 fuel is purchased

Averaging Period: n/a

Deviation Limit: The No. 2 fuel oil shall contain no more than 0.05% sulfur by weight.

Basis of monitoring:

A common way to determine SO2 emissions is by determining the amount (percentage) of sulfur in fuel combusted by an emission unit. This quantity along with stack flow rate and quantity of fuel combusted may be used to calculate the amount of SO2 emitted to the atmosphere.

Unit/Group/Process Information				
ID No.: GRP-VENT1				
Control Device ID No.: N/A	Control Device Type: N/A			
Applicable Regulatory Requirement				
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: 111A-1			
Pollutant: PM (OPACITY)	Main Standard: § 111.111(a)(1)(A)			
Monitoring Information				
Indicator: Fuel Type				
Minimum Frequency: Annually				
Averaging Period: n/a				
Deviation Limit: If an alternate fuel is fired either	alone or in combination with the specified gas, it shall be			

Basis of monitoring:

considered a deviation.

Industry has demonstrated through performance tests and historical data that opacity and particulate matter standards are consistently met when combustion units fire natural gas only.

Compliance Review	
1. In accordance with 30 TAC Chapter 60, the compliance history was reviewed on 03/08/2017.	
Site rating: <u>0.50 / Satisfactory</u> Company rating: <u>0.50 / Satisfactory</u>	
(High < 0.10 ; Satisfactory ≥ 0.10 and ≤ 55 ; Unsatisfactory > 55)	
2. Has the permit changed on the basis of the compliance history or site/company rating?	No
Site/Permit Area Compliance Status Review	
1. Were there any out-of-compliance units listed on Form OP-ACPS?	No
2. Is a compliance plan and schedule included in the permit?	No
Arrailable Unit Attribute Forms	
Available Unit Attribute Forms OP-UA1 - Miscellaneous and Generic Unit Attributes	
OP-UA2 - Stationary Reciprocating Internal Combustion Engine Attributes	
OP-UA3 - Storage Tank/Vessel Attributes	
OP-UA4 - Loading/Unloading Operations Attributes	
OP-UA5 - Process Heater/Furnace Attributes	
OP-UA6 - Boiler/Steam Generator/Steam Generating Unit Attributes	
OP-UA7 - Flare Attributes	
OP-UA8 - Coal Preparation Plant Attributes	
OP-UA9 - Nonmetallic Mineral Process Plant Attributes	
OP-UA10 - Gas Sweetening/Sulfur Recovery Unit Attributes	
OP-UA11 - Stationary Turbine Attributes	
OP-UA12 - Fugitive Emission Unit Attributes	
OP-UA13 - Industrial Process Cooling Tower Attributes	
OP-UA14 - Water Separator Attributes	
OP-UA15 - Emission Point/Stationary Vent/Distillation Operation/Process Vent Attributes	
OP-UA16 - Solvent Degreasing Machine Attributes	
OP-UA17 - Distillation Unit Attributes	
OP-UA18 - Surface Coating Operations Attributes	
OP-UA19 - Wastewater Unit Attributes	
OP-UA20 - Asphalt Operations Attributes	
OP-UA21 - Grain Elevator Attributes	
OP-UA22 - Printing Attributes	
OP-UA24 - Wool Fiberglass Insulation Manufacturing Plant Attributes	
OP-UA25 - Synthetic Fiber Production Attributes OP-UA26 - Electroplating and Anodizing Unit Attributes	
OP-UA27 - Nitric Acid Manufacturing Attributes	
OP-UA28 - Polymer Manufacturing Attributes	
OP-UA29 - Glass Manufacturing Unit Attributes	
OP-UA30 - Kraft, Soda, Sulfite, and Stand-Alone Semichemical Pulp Mill Attributes	
OP-UA31 - Lead Smelting Attributes	
OP-UA32 - Copper and Zinc Smelting/Brass and Bronze Production Attributes	
OP-UA33 - Metallic Mineral Processing Plant Attributes	
OP-UA34 - Pharmaceutical Manufacturing	
OP-UA35 - Incinerator Attributes	
OP-UA36 - Steel Plant Unit Attributes	
OP-UA37 - Basic Oxygen Process Furnace Unit Attributes	
OP-UA38 - Lead-Acid Battery Manufacturing Plant Attributes	
OP-UA39 - Sterilization Source Attributes	
OP-UA40 - Ferroalloy Production Facility Attributes	
OP-UA41 - Dry Cleaning Facility Attributes	
OP-UA42 - Phosphate Fertilizer Manufacturing Attributes	
OP-UA43 - Sulfuric Acid Production Attributes	
OP-UA44 - Municipal Solid Waste Landfill/Waste Disposal Site Attributes	
OP-UA45 - Surface Impoundment Attributes OP-UA46 - Epoxy Resins and Non-Nylon Polyamides Production Attributes	
OF OATO LEPONY RESILIS AND INVITABILITED FOUNDATION ACCURATE	

- OP-UA47 Ship Building and Ship Repair Unit Attributes
- OP-UA48 Air Oxidation Unit Process Attributes
- OP-UA49 Vacuum-Producing System Attributes
- OP-UA50 Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes
- OP-UA51 Dryer/Kiln/Oven Attributes
- OP-UA52 Closed Vent Systems and Control Devices
- OP-UA53 Beryllium Processing Attributes
- OP-UA54 Mercury Chlor-Alkali Cell Attributes
- OP-UA55 Transfer System Attributes
- OP-UA56 Vinyl Chloride Process Attributes
- OP-UA57 Cleaning/Depainting Operation Attributes
- OP-UA58 Treatment Process Attributes
- OP-UA59 Coke By-Product Recovery Plant Attributes
- OP-UA60 Chemical Manufacturing Process Unit Attributes
- OP-UA61 Pulp, Paper, or Paperboard Producing Process Attributes
- OP-UA62 Glycol Dehydration Unit Attributes
- OP-UA63 Vegetable Oil Production Attributes